PTO/SB/08 (2-92) Sheet 3 of 23

| Form PTO-1449 | Docket Number: 0063.021 Application Number: 08/441,355 | | | | |
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| INFORMATION DISCLOSURE CITATION IN AN APPLICATION | Applicant Hought | ion, et al. | | | |
| (Use several sheets if necessary) | Filing Date: May 15, 1995 | Group Art Unit: 1815 | | | |

| Examiner | Ref. No. | OTHER DOCUMENTS (including author, title, Date, Pertinent Pages, Etc. Title |
|----------|----------|--|
| Initials | <u> </u> | |
| Mys | | Enzymology, Ch. 51, 152, Berger & Kimmel (Eds), Academic Press Ltd. (1987) |
| | I.A.7. | Biggin, et al., "Transcription and DNA Sequence of the Bamhi L Fragment of B95-8 Epstein-Bar Virus," EMBO J. 3(5):1083-1090 (1984) |
| | .8.A.I | Billeter, et al., "Cloning of DNA Corresponding to Four Different Measles Virus Genomic Regions," Virology 132:147-159 (1984) |
| | I.A.9. | Blumberg, "Australia Antigen and Biology of Hepatitis B," Science 197:17-25 (1977) |
| | I.A.10. | Bodescot, et al., "Clustered Alternative Splice Sites In Epstein-Barr Virus Rnas," <u>Nucleic Acids</u> Res. 15:5887 (1987) |
| | I.A.11. | Boss, et al., "Cloning and Sequence Analysis of the Human Major Histocompatibility Complex Gene DC-30," Proc. Natl. Acad. Sci. USA 81:5199-5203 (1984) |
| | I.A.12. | Bradley, "Research Perspectives in Posttransfusion Non-A, Non-B Hepatitis," Infection, Immunity and Blood Transfusion, (Dodd, R.Y. & Barker, L.F. (Eds.), Alan R. Liss Inc.) Pp. 81-9 (1985) |
| | I.A.13. | Bradley, et al., "Transmission, Etiology and Pathogenesis of Viral Hepatitis Non-A, Non-B in Non-Human Primates," Adv. Hepat. Res. Ch.31 pp. 268-280 (1984) |
| | I.A.14. | Bradley, et al., "Posttransfusion Non-A, Non-B Hepatitis: Physicochemical Properties of Two Distinct Agents," J. Infect. Dis. 148(2):254-265 (1983) |
| | I.A.15. | Burrell, et al., "Expression în Escherichia Coli of Hepatitis B Virus DNA Sequences Cloned in Plasmid Pbr322," Nature 279:43-47 (1979) |
| | I.A.16. | Chan, et al., "Serological Responses to Infection with Three Different Types of Hepatitis C Virus," The Lancet 338:1391 (1991) |
| | I.A.17. | Charnay, et al., "Biosynthesis of Hepatitis B Virus Surface Antigen in Escherichia coli," Nature 286:893-895 (1980) |
| | I.A.20. | Daniels, et al., "A Second Major Class of Alu Family Repeated DNA Sequences in a Primate Genome," Nucleic Acids Res. 11(21):7595-7610 (1983) |
| | I.A.21. | Davies (ed.), Amino Acids and Peptides, (Chapman and Hall, London, 1985) |
| | I.A.22. | Davis, et al., "Isolation of cDNA Clones for Differentially Expressed Genes of the Human Parasite Schistosoma Mansoni," Proc. Natl. Acad. Sci. USA 83:5534-5538 (1986) |
| | I.A.23. | Davison, et al., "The Complete DNA Sequence of Varicella-Zoster Virus," J. Gen. Virol. 67:1759-1816 (1986) |
| | I.A.24. | Deininger, et al., "Sequence Analysis and in Vitro Transcription of Portions of the Epstein-Barr Virus Genome," J. Cell Biochem. 19:267-274 (1982) |
| | I.A.25. | Dull, et al., "Insulin-Like Growth Factor II Precursor Gene Organization in Relation to Insulin Gene Family," Nature 310:777-781 (1984) |
| MMAx | I.A.26. | Emtage, et al., "Influenza Antigenic Determinants Are Expressed From Haemagglutinin Genes |
| EXAMIN | ER: | DATE CONSIDERED |

PTO/SB/08 (2-92) Sheet 4 of 23

| Form PTO-1449 | Docket Number: 0063.021 | Application Number: 08/441,355 | | | |
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| INFORMATION DISCLOSURE CITATION IN AN APPLICATION | Applicant Hought | on, et al. | | | |
| (Use several sheets if necessary) | Filing Date: May 15, 1995 | Group Art Unit: 1815 | | | |

| | | OTHER DOCUMENTS (including author, title, Date, Pertinent Pages, Etc.) |
|----------------------|----------|---|
| Examiner Initials | Ref. No. | Title |
| Was | | Cloned in Escherichia coli," Nature 283:171-174 (1980) |
| | I.A.28. | Farci, et al., "A Long-Term Study of Hepatitis C Virus Replication In Non-A, Non-B Hepatitis," New Eng. J. Med. 325(2):96-104 (1991) |
| | LA.29. | Farrell, et al., "Latent and Lytic Cycle Promoters of Epstein-Barr Virus," EMBO J. 2(8):1331-1338 (1983) |
| | I.A.30. | Farrell, et al., "Homologous Upstream Sequences Near Epstein-Barr Virus Promoters," <u>Proc.</u> Natl. Acad. Sci. USA 80:1565-1569 (1983) |
| | I.A.31. | Feinstone, et al., "Transfusion-Associated Hepatitis Not Due To Viral Hepatitis Type A Or B," New England J. Med. 292(15):767-770 (1975) |
| | I.A.32. | Forsgren, et al., "Molecular Cloning and Characterization of A Full-Length cDNA Clone for Human Plasminogen," FEBS Lett. 213(2):254-260 (1987) |
| | I.A.33. | Geysen, et al., "A Priori Delineation of A Peptide Which Mimies A Discontinuous Antigenic Determinant," Mol. Immunol. 23:709-715 (1986) |
| | I.A.34. | Gibson, et al., "Homology Between Two EBV Early Genes and HSV Ribonucleotide Reductase and 38K Genes," Nucleic Acids Res. 12(12):5087-5099 (1984) |
| | I.A.35. | Gilmore, et al., "The Nucleocapsid Gene of Infectious Hematopoietic Necrosis Virus, A Fish Rhabdovirus," Virology 167:644-648 (1988) |
| | I.A.36. | Glover (ed), DNA Cloning 1: A Practical Approach, (IRL Press, Washington DC, USA) (1985) |
| | I.A.37. | Gross, et al., (eds), The Peptides, (Academic Press, New York, 1983) |
| | I.A.38. | Habets, et al., HCV Antibodies React with Ross River Virus Peptide, (8/25/94) |
| | I.A.44. | U.K. High Court Judgment in Chiron vs. Organon, Akzo Pharma, and UBI and Chiron vs. Murex (November 2, 1995) |
| | I.A.45. | U.K. Appeals Court Judgment in Chiron vs. Organon, Akzo Pharma, and UBI and Chiron vs. Murex (October 5, 1993) |
| | I.A.46. | Houghton, et al., "Molecular Biology of the Hepatitis C Viruses: Implications for Diagnosis, Development and Control of Viral Disease," Hepatology 14:381-388 (1991) |
| | I.A.47. | Ishida, et al., "Sequence of 2,617 Nucleotides From the 3' End of Newcastle Disease Virus Genome RNA and the Predicted Amino Acid Sequence of Viral NP Protein," Nucleic Acids Res. 14(16):6551-6564 (1986) |
| | I.A.48. | Jeang, et al., "Organization of the Epstein-Barr Virus DNA Molecule. III. Location of the P3hr-1 Deletion Junction and Characterization of the Noti Repeat Units That Form Part of the Template for An Abundant 12-O-Tetradecanoylphorbol-13-Acetate-Induced mRNA Transcript," J. Virol. 48(1):135-148 (1983) |
| WA | I.A.49. | Jones, et al., "The EB Virus Genome In Daudi Burkitt's Lymphoma Cells Has A Deletion Similar To That Observed In A Non-Transforming Strain (P3HR-1) of the Virus," EMBO |

| EXAMINER: MASO | DATE CONSTDERED: | | | | | |
|--|------------------|--|--|--|--|--|
| EXAMINER: Initial if citation considered, whether or not the citation conforms with MFEP 609. Draw a line through the citation if not in conformance and not considered. Include a copy of this form with next communication to applicant. | | | | | | |

PTO/SB/08 (2-92) Sheet 2 of 23

| Form PTO-1449 | Docket Number: 0063,021 | Application Number: 08/441,355 | | |
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| INFORMATION DISCLOSURE CITATION IN AN APPLICATION | Applicant Houghton, et al. | | | |
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| Initials | | | | FOREIGN PA | ATENT DOCUMEN | TS | | | |
| I.A.145 01/29/92 EP 0468527 A2 Europe | Initials | Ref. No. | Date | Document No. | Country | Class | Subclass | | |
| I.B.6. 10/26/83 JP 183629/1983 Japan | 1/1/1/1/6 | I.A.142 | 08/21/91 | EP 0442394 A2 | Europe | | 4 | | |
| I.B.36. 1982 WO 82/00205 PCT | | LA.145 | 01/29/92 | EP 0468527 A2 | Europe | | | | |
| I.B.53. 1987 WO 87/05930 PCT | | LB.6. | 10/26/83 | JP 183629/1983 | Japan | | | | |
| I.B.61. 06/26/91 2,239,245 Great Britain | | I.B.36. | 1982 | WO 82/00205 | PCT | | | | |
| I.B.64. 05/31/89 EP 0318216 Europe | | I.B.53. | 1987 | WO 87/05930 | PCT | | | | |
| I.B.65. 09/19/90 EP 0388232 Europe | | I.B.61. | 06/26/91 | 2,239,245 | Great Britain | | | | |
| IB.74. 1982 WO 82/02774 PCT | | I.B.64. | 05/31/89 | EP 0318216 | Europe | | | | |
| IB.87. 08/10/88 EP 0277437 Europe | | I.B.65. | 09/19/90 | EP 0388232 | Europe | • | | | _ |
| LB.88. 05/19/88 WO 88/03410 PCT | | I.B.74. | 1982 | WO 82/02774 | PCT | | | | |
| I.B.91. 1991 WO 91/15516 PCT | | I.B.87. | 08/10/88 | EP 0277437 | Europe | | | | |
| I.B.98. 1988 EP 0279460 Europe | | LB.88. | 05/19/88 | WO 88/03410 | PCT | | | | |
| I.B.100 1986 EP 0194207 Europe | | I.B.91. | 1991 | WO 91/15516 | PCT | | | | |
| I.B.104 04/13/88 EP 0263761 Europe I.B.113. 1982 EP 0061974 Europe I.B.114 1982 WO 82/03330 PCT I.B.150 07/01/92 77108060 Taiwan I.B.153 01/22/92 2,212,511 United Kingdom I.B.153 01/22/92 2,212,511 United Kingdom I.B.154 Corporate Pages, Etc. Examiner Initials I.A.1. Arrand, et al., "Molecular Cloning of the Complete Epstein-Barr Virus Genome as a Set of Overlapping Restriction Endonuclease Fragments," Nucleic Acids Res. 9(13):2999-3014 (1981) I.A.2. Baer, et al., "DNA Sequence and Expression of the B95-8 Epstein-Barr Virus Genome," Nature 310:207-211 (1984) I.A.3. Bankler, et al., "Sequence Analysis of the 17,166 Base-Pair Ecori Fragment C of B95-8 Epstein-Barr Virus," Mol. Biol. Med. 1:21-45 (1983) I.A.5. Beck, et al., "Human Cytomegalovirus Encodes a Glycoprotein Homologous to MHC Class-I Antigens," Nature 331:269-272 (1988) | | I.B.98. | 1988 | EP 0279460 | Europe | | | | |
| I.B.113. 1982 EP 0061974 Europe I.B.114 1982 WO 82/03330 PCT I.B.150 07/01/92 77108060 Taiwan I.B.153 01/22/92 2,212,511 United Kingdom I.B.153 Title Consider the Complete Epstein-Barr Virus Genome as a Sct of Overlapping Restriction Endonuclease Fragments," Nucleic Acids Res. 9(13):2999-3014 (1981) I.A.1. Baer, et al., "DNA Sequence and Expression of the B95-8 Epstein-Barr Virus Genome," Nature 310:207-211 (1984) I.A.3. Bankler, et al., "Sequence Analysis of the 17,166 Base-Pair Ecori Fragment C of B95-8 Epstein-Barr Virus," Mol. Biol. Med. 1:21-45 (1983) I.A.5. Beck, et al., "Human Cytomegalovirus Encodes a Glycoprotein Homologous to MHC Class-1 Antigens," Nature 331:269-272 (1988) | | I.B.100 | 1986 | EP 0194207 | Europe | | | | |
| I.B.114 1982 WO 82/03330 PCT I.B.150 07/01/92 77108060 Taiwan I.B.153 01/22/92 2,212,511 United Kingdom OTHER DOCUMENTS (including author, title, Date, Pertinent Pages, Etc.) Examiner Initials I.A.1. Arrand, et al., "Molecular Cloning of the Complete Epstein-Barr Virus Genome as a Sct of Overlapping Restriction Endonuclease Fragments," Nucleic Acids Res. 9(13):2999-3014 (1981) I.A.2. Baer, et al., "DNA Sequence and Expression of the B95-8 Epstein-Barr Virus Genome," Nature 310:207-211 (1984) I.A.3. Bankier, et al., "Sequence Analysis of the 17,166 Base-Pair Ecori Fragment C of B95-8 Epstein-Barr Virus," Mol. Biol. Med. 1:21-45 (1983) I.A.5. Beck, et al., "Human Cytomegalovirus Encodes a Glycoprotein Homologous to MHC Class-I Antigens," Nature 331:269-272 (1988) | | I.B.104 | 04/13/88 | EP 0263761 | Europe | | | | |
| I.B.150 07/01/92 77108060 Taiwan I.B.153 01/22/92 2,212,511 United Kingdom OTHER DOCUMENTS (including author, title, Date, Pertinent Pages, Etc. Examiner Initials I.A.1. Arrand, et al., "Molecular Cloning of the Complete Epstein-Barr Virus Genome as a Sct of Overlapping Restriction Endonuclease Fragments," Nucleic Acids Res. 9(13):2999-3014 (1981) I.A.2. Baer, et al., "DNA Sequence and Expression of the B95-8 Epstein-Barr Virus Genome," Nature 310:207-211 (1984) I.A.3. Bankier, et al., "Sequence Analysis of the 17,166 Base-Pair Ecori Fragment C of B95-8 Epstein-Barr Virus," Mol. Biol. Med. 1:21-45 (1983) I.A.5. Beck, et al., "Human Cytomegalovirus Encodes a Glycoprotein Homologous to MHC Class-I Antigens," Nature 331:269-272 (1988) | | I.B.113. | 1982 | EP 0061974 | Europe | | | | |
| I.B.153 01/22/92 2,212,511 United Kingdom OTHER DOCUMENTS (including author, title, Date, Pertinent Pages, Etc.) Examiner Initials I.A.1. Arrand, et al., "Molecular Cloning of the Complete Epstein-Barr Virus Genome as a Sct of Overlapping Restriction Endonuclease Fragments," Nucleic Acids Res. 9(13):2999-3014 (1981) I.A.2. Baer, et al., "DNA Sequence and Expression of the B95-8 Epstein-Barr Virus Genome," Nature 310:207-211 (1984) I.A.3. Bankier, et al., "Sequence Analysis of the 17,166 Base-Pair Ecori Fragment C of B95-8 Epstein-Barr Virus," Mol. Biol. Med. 1:21-45 (1983) I.A.5. Beck, et al., "Human Cytomegalovirus Encodes a Glycoprotein Homologous to MHC Class-I Antigens," Nature 331:269-272 (1988) | | LB.114 | 1982 | WO 82/03330 | PCT | 1 | | • | |
| Examiner Initials Ref. No. Title I.A.1. Arrand, et al., "Molecular Cloning of the Complete Epstein-Barr Virus Genome as a Set of Overlapping Restriction Endonuclease Fragments," Nucleic Acids Res. 9(13):2999-3014 (1981) I.A.2. Baer, et al., "DNA Sequence and Expression of the B95-8 Epstein-Barr Virus Genome," Nature 310:207-211 (1984) I.A.3. Bankier, et al., "Sequence Analysis of the 17,166 Base-Pair Ecori Fragment C of B95-8 Epstein-Barr Virus," Mol. Biol. Med. 1:21-45 (1983) I.A.5. Beck, et al., "Human Cytomegalovirus Encodes a Glycoprotein Homologous to MHC Class-I Antigens," Nature 331:269-272 (1988) | | LB.150 | 07/01/92 | 77108060 | Taiwan | | | | |
| Examiner Initials I.A.1. Arrand, et al., "Molecular Cloning of the Complete Epstein-Barr Virus Genome as a Sct of Overlapping Restriction Endonuclease Fragments," Nucleic Acids Res. 9(13):2999-3014 (1981) I.A.2. Baer, et al., "DNA Sequence and Expression of the B95-8 Epstein-Barr Virus Genome," Nature 310:207-211 (1984) I.A.3. Bankler, et al., "Sequence Analysis of the 17,166 Base-Pair Ecori Fragment C of B95-8 Epstein-Barr Virus," Mol. Biol. Med. 1:21-45 (1983) I.A.5. Beck, et al., "Human Cytomegalovirus Encodes a Glycoprotein Homologous to MHC Class-I Antigens," Nature 331:269-272 (1988) | | I.B.153 | 01/22/92 | 2,212,511 | United Kingdom | | | | |
| I.A.1. Arrand, et al., "Molecular Cloning of the Complete Epstein-Barr Virus Genome as a Set of Overlapping Restriction Endonuclease Fragments," Nucleic Acids Res. 9(13):2999-3014 (1981) I.A.2. Baer, et al., "DNA Sequence and Expression of the B95-8 Epstein-Barr Virus Genome," Nature 310:207-211 (1984) I.A.3. Bankier, et al., "Sequence Analysis of the 17,166 Base-Pair Ecori Fragment C of B95-8 Epstein-Barr Virus," Mol. Biol. Med. 1:21-45 (1983) I.A.5. Beck, et al., "Human Cytomegalovirus Encodes a Glycoprotein Homologous to MHC Class-I Antigens," Nature 331:269-272 (1988) | | | | OTHER | DOCUMENTS | (includir | ig author, title, Dai | e, Pertinent I | Pages, Etc.) |
| Overlapping Restriction Endonuclease Fragments," Nucleic Acids Res. 9(13):2999-3014 (1981) I.A.2. Baer, et al., "DNA Sequence and Expression of the B95-8 Epstein- Barr Virus Genome," Nature 310:207-211 (1984) I.A.3. Bankier, et al., "Sequence Analysis of the 17,166 Base-Pair Ecori Fragment C of B95-8 Epstein-Barr Virus," Mol. Biol. Med. 1:21-45 (1983) I.A.5. Beck, et al., "Human Cytomegalovirus Encodes a Glycoprotein Homologous to MHC Class-I Antigens," Nature 331:269-272 (1988) | | Ref. No. | Title | | | | | | |
| I.A.3. Bankler, et al., "Sequence Analysis of the 17,166 Base-Pair Ecori Fragment C of B95-8 Epstein-Barr Virus," Mol. Biol. Med. 1:21-45 (1983) I.A.5. Beck, et al., "Human Cytomegalovirus Encodes a Glycoprotein Homologous to MHC Class-I Antigens," Nature 331:269-272 (1988) | Myso | I.A.1. | Arrand, et Overlappi | Arrand, et al., "Molecular Cloning of the Complete Epstein-Bart Virus Genome as a Set of Overlapping Restriction Endonuclease Fragments," Nucleic Acids Res. 9(13):2999-3014 (1981) | | | | | |
| Barr Virus," Mol. Biol. Med. 1:21-45 (1983) I.A.5. Beck, et al., "Human Cytomegalovirus Encodes a Glycoprotein Homologous to MHC Class-I Antigens," Nature 331:269-272 (1988) | | I.A.2. | | | | | | | |
| Antigens," Nature 331:269-272 (1988) | | I.A.3. | | | | | | | |
| | | I.A.5. | | | | coprotein Ho | omologous to | MHC Cla | ss-l |
| LA.6. Mierendorf, et al., "Gene Isolation by Screening λgt11 Libraries With Antibodies," Methods In | [| I.A.6. | Mierendor | f, et al., "Gene Isolat | ion by Screening λgt11 | Libraries V | Vith Antibodie | es," <u>Meth</u> | ods In |

| EXAMINER: WWW | DATE CONSIDERED: |
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| Examiner Initials | Ref. No. | Date | Document No. | Name | Class | Subclass | Filing Date If Appropriate |
| Wb | I.A.143 | 04/21/92 | 5,106,726 | Wang, Chang Y. | 99.0 | | |
| | I.A.144 | 07/25/95 | 5,436,126 | Wang, Chang Y. | | | |
| | I.B.13. | 1990 | 4,891,313 | Berger, et al. | | | |
| | I.B.52. | 1987 | 4,659,678 | Forrest, et al. | | | |
| | LB.76. | 1991 | 5,077,193 | Mishiro, et al. | | | |
| | I.B.78. | 07/28/87 | 4,683,195 | Mullis, et al. | | | |
| | I.B.79. | 07/28/87 | 4,683,202 | Mullis, et al. | | | |
| | I.B.102. | 1987 | 4,673,634 | Seto, et al. | | | |
| | I.B.116. | 1987 | 4,702,909 | Villarejos, et al. | | | |
| | LB.162. | 03/02/93 | 5,191,064 | Arima, et al. | | | |
| | I.B.163. | 06/08/93 | 5,218,099 | Reyes, et al. | | | |

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| Mwh | I.A.4. | 06/29/89 | WO 89/05855-A | PCT (| | | | | | |
| | I.A.18. | 01/07/93 | WO 93/00365 | PCT | | | | | | |
| | I.A.19. | 12/18/90 | 58123/90 | Australia | | | | | | |
| | I.A.27. | 11/30/88 | 88400790.7 | Europe | | | | | | |
| | I.A.39. | 06/26/91 | GB 2,239,245 A | Great Britain | | | | | | |
| | I.A.40. | 11/15/93 | 5-81600 | Japan | | | | | | |
| | I.A.41. | 06/01/89 | WO 89/04669 | PCT | | 1 | | | | |
| | I.A.42. | 10/04/90 | WO 90/11089 | PCT | | | | | | |
| | I.A.43. | 11/29/90 | WO 90/14436 | PCT | | | | | | |
| | I.A.54. | 03/29/90 | 02-500880 | Japan | | | | | | |
| | I.A.55. | 11/16/89 | 89/10967 | Australia | | 1 | | | | |
| | I.A.59. | 11/29/89 | 36979/89 | Australia | | | | | | |
| | I.A.131. | 09/04/91 | 0293274 | Europe | | - | | | | |
| | I.A.132. | 11/16/89 | WO 89/10967 | PCT | | | | V | | |

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| Form PTO-1449 | Docket Number: 0063.021 | Application Number: 08/441,355 |
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| INFORMATION DISCLOSURE CITATION IN AN APPLICATION | Applicant Houghton, et al. | |
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| | | OTHER DOCUMENTS (Including author, title, Date, Pertinent Pages, Etc.) | | |
|----------------------|----------|--|--|--|
| Examiner Initials | Ref. No. | Title | | |
| MANA | | Yeast," Nucl. Acids Res. 12(19):7345-7358 (1984) | | |
| 7 | I.A.68. | Murray, et al., "The Expression of Hepatitis B Virus Antigen Genes In Escherichia Coli," Hepatitis B. Vaccine, INSERM Symposium No. 18 (Maupas, et al. eds.) pp. 289-304 (1981) | | |
| | LA.69. | Ogasawara, et al., "Genes and their Organization In the Replication Origin Region of the Bacterial Chromosome," Mol. Microbiol. 6(5):629-634 (1992) | | |
| | LA.70. | Oram, et al., "Use of Recombinant Plasmids To Investigate the Structure of the Human Cytomegalovirus Genome," J. Gen. Virol. 59:111-129 (1982) | | |
| | LA.71. | Pasek, et al., "Hepatitis B Virus Genes & their Expression In E. Coli," Nature 282:575-579 (1979) | | |
| | I.A.72. | Prince, et al., Viral Hepatitis pp. 633-640 (The Franklin Press, 1978) | | |
| | I.A.73. | Prince, et al., "Long-Incubation Post-Transfusion Hepatitis Without Serological Evidence of Exposure To Hepatitis-B Virus," The Lancet pp. 241-246 (August 3, 1974) | | |
| | I.A.74. | Prince, et al., "Inactivation of Hepatitis B and Hutchinson Strain Non-A, Non-B Hepatitis Viruses By Exposure To Tween 80 and Ether," <u>Vox Sang</u> 46:36-43 (1984) | | |
| | I.A.75. | Reyes, et al., "Molecular Biology of Non-A, Non-B Hepatitis Agents: Hepatitis C and Hepatitis E Viruses," Advances in Virus Research 40:57-102 (1991) | | |
| | I.A.76. | Rice, et al., Proc. Natl. Acad. Sci. USA 78:2062-2066 (1981) | | |
| | LA.77. | Sagar, et al., "Interferon-0-Related DNA Is Dispersed In the Human Genome," Science 223:1312-1315 (1984) | | |
| | I.A.78. | 78. Seguin, et al., "DNA Sequence and Transcription of Bamhi Fragment B Region of B95-8 Epstein-Barr Virus," Mol. Biol. Med. 1:369-392 (1983) | | |
| | I.A.79. | Sehgal, et al., "Isolation of Novel Human Genomic DNA Clones Related To Human Interferon-0 ₁ Cdna," Proc. Natl. Acad. Sci. USA 80:3632-3636 (1983) | | |
| | I.A.80. | Shine, et al., "The 3'-Terminal Sequence of Escherichia Coli 16S Ribosomal RNA: Complementarity To Nonsense Triplets and Ribosome Binding Sites," Proc. Natl. Acad. Sci. USA 71(4):1342-1346 (1974) | | |
| | I.A.81. | Simmonds, et al., "Mapping of Serotype-Specific, Immunodominant Epitopes In the NS-4 Region of Hepatitis C Virus (HCV): Use of Type-Specific Peptides To Serologically Differentiate Infections With HCV Types 1, 2 and 3," J. Clin. Microbiol. 31(6):1493-1503 (1993) | | |
| | I.A.82. | Sprengel, et al., "Comparative Sequence Analysis of Defective and Infectious Avian Hepadnaviruses," Nucleic Acids. Res. 19(15):4289 (1991) | | |
| MP | I.A.83. | Staden, "Measurements of the Effects That Coding for A Protein Has On A DNA Sequence and their Use for Finding Genes," <u>Nucleic Acids Res.</u> 12(1):551-567 (1984) | | |

| | 1 | | | |
|--|--|------------------|--|--|
| EXAMINER: | MO | DATE CONSIDERED: | | |
| EXAMINER: Initial if citation considered, whether or not the citation conforms with MPEP 609. Draw a line through the citation if not in conformance and not considered. Include a copy of this form with next communication to applicant. | | | | |
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| Form PTO-1449 | Docket Number: 0063.021 | Application Number: 08/441,355 |
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| INFORMATION DISCLOSURE CITATION IN AN APPLICATION | Applicant Houghton, et al. | |
| (Use several sheets if necessary) | Filing Date: May 15, 1995 | Group Art Unit: 1815 |

| <u> </u> | | OTHER DOCUMENTS (including author, title, Date, Perlinent Pages, Etc.) |
|----------------------|----------|--|
| Examiner Initials | Ref. No. | Title |
| | | J. 3(4):813-821 (1984) |
| mb | I.A.50. | Kemp, et al., "Direct Immunoassay for Detecting Escherichia Coli Colonies That Contain Polypeptides Encoded By Cloned DNA Segments," Proc. Natl. Acad. Sci. USA 78(7):4520-4524 (1981) |
| | I.A.51. | Kilejian, et al., "Histidine-Rich Domain of the Knob Protein of the Human Malaria Parasite Plasmodium Falciparum," Proc. Natl. Acad. Sci. USA 83:7938-7941 (1986) |
| | I.A.52. | Kozak, "Possible Role of Flanking Nucleotides In Recognition of the AUG Initiator Codon By Eukaryotic Ribosomes," Nucleic Acids Res. 9(20):5233-5252 (1981) |
| | I.A.53. | Krissansen, et al., "Primary Structure of the T3 K Subunit of the T3/T Cell Antigen Receptor Complex Deduced From Cdna Sequences: Evolution of the T3 K and A Subunits," EMBO J. 5(8):1799-1808 (1986) |
| | I.A.56. | Ladin, et al., "Characterization of A cDNA Encoding Ricin E, A Hybrid Ricin-Ricinus Communis Agglutinin Gene From the Castor Plant Ricinus Communis," Plant Mol. Biol. 9:287-295 (1987) |
| | I.A.57. | Laux, et al., "A Spliced Epstein-Barr Virus Gene Expressed In Immortalized Lymphocytes Is Created By Circularization of the Linear Viral Genome," <u>EMBO J.</u> 7(3):769-774 (1988) |
| | I.A.58. | Leguoy, et al., "Structure and Expression of the Murine L-Myc Gene," EMBO J. 6(11):3359-3366 (1987) |
| | I.A.60. | Malby, et al., "The Structure of A Complex Between the NC10 Antibody and Influenza Virus Neuraminidase and Comparison With the Overlapping Binding Site of the NC41 Antibody," Structure 2:733-746 (1994) |
| | I.A.61. | Maniatis, et al., Molecular Cloning: A Laboratory Manual, Cold Spring Harbour Press, Cold Spring Harbour, NY (1982) |
| | I.A.62. | Mason, et al., "Partial Nucleotide Sequence of the Japanese Encephalitus Virus Genome," Virology 158:348-360 (1987) |
| | I.A.63. | May, et al., "Significance of Similarities In Patterns: An Application To v Interferon-Related DNA On Human Chromosome 2," Proc. Natl. Acad. Sci. USA 82:4090-4094 (1985) |
| | I.A.64. | McOmish, et al., "Detection of Three Types of Hepatitis C Virus In Blood Donors: Investigation of Type-Specific Differences In Serologic Reactivity and Rate of Alanine Aminotransferase Abnormalities," Transfusion 33(1):7-13 (1993) |
| | I.A.65. | McOmish, et al., "Geographical Distribution of Hepatitis C Virus Genotypes In Blood Donors: An International Collaborative Survey," J. Clin. Microbiol. 32(4):884-892 (1994) |
| | I.A.66. | Kemp, et al., Methods in Enzymology, 79:622-630 (1981), published by Academic Press Inc. |
| (VYV) | I.A.67. | Molenaar, et al., "Structure and Organization of Two Linked Ribosomal Protein Genes In |

EXAMINER: Initial if citation considered, whether or not the citation conforms with MPEP 609. Draw a line through the citation if not in conformance and not considered. Include a copy of this form with next communication to applicant.

PTO/SB/08 (2-92) Sheet 7 of 23

| Form PTO-1449 | Docket Number: 0063.021 | Application Number: 08/441,355 |
|---|----------------------------|--------------------------------|
| INFORMATION DISCLOSURE CITATION IN AN APPLICATION | Applicant Houghton, et al. | |
| (Use several sheets if necessary) | Filing Date: May 15, 1995 | Group Art Unit: 1815 |

| | | OTHER DOCUMENTS (Including author, title, Date, Pertinent Pages, Etc.) | |
|----------------------|----------|--|--|
| Examiner Initials | Ref. No. | Title | |
| IND | I.A.84. | Strauss, et al., "Complete Nucleotide Sequence of the Genomic RNA of Sindbis Virus," Virology 133:92-110 (1984) | |
| | I.A.85. | Strauss, et al., "Sequence Coding for the Alphavirus Nonstructural Proteins Is Interrupted By An Opal Termination Codon," Proc. Natl. Acad. Sci. USA 80:5271-5275 (1983) | |
| | I.A.86. | Sudhof, et al., "cDNA and Derived Amino Acid Sequences for Rat and Human Synaptophysin," Nucleic Acids Res. 15(22):9607 (1987) | |
| | I.A.87. | Sugitani, et al., "Sensitivity of Serological Assays To Identify Blood Donors With Hepatitis C Viraemia," The Lancet 339:1018-1019 (1992) | |
| | L.A.88. | Takagi, et al., "Nucleotide Sequence and Promoter Region for the Neutral Protease Gene From Bacillus Stearothermophilus," J. Bacteriol. 163(3):824-831 (1985) | |
| | I.A.89. | Takahashi, et al., "Complete Nucleotide Sequence of the Human Corticotropin-0- Lipotropin Precursor Gene," Nucleic Acids Res. 11(19):6847-6858 (1983) | |
| | I.A.90. | Takkinen, "Complete Nucleotide Sequence of the Nonstructural Protein Genes of Semliki forest Virus," Nucl. Acids Res. 14(14):5667-5682 (1986) | |
| | I.A.91. | Tamashiro, et al., "Structure of the Heterogeneous L-S Junction Region of Human Cytomegalovirus Strain AD169 DNA," J. Virol. 52(2):541-548 (1984) | |
| | I.A.92. | "Mysterious Strain of Hepatitis Is Identified," The Wall Street Journal, Friday, 21 April 1989 | |
| | I.A.93. | Vallari, et al., "Serological Markers of Posttransfusional Hepatitis C Viral Infection," <u>J.</u> <u>Clin. Microbiol.</u> 30(3) :552-556 (1992) | |
| | LA.94. | Weston, et al., "Sequence of the Short Unique Region, Short Repeats, and Part of the Long Repeats of Human Cytomegalovirus," J. Mol. Biol. 192:177-208 (1986) | |
| | I.A.95. | Yang, et al., "Human Dihydrofolate Reductase Gene Organization. Extensive Conservation of the G+C-Rich 5' Non-Coding Sequence and Strong Intron Size Divergence From Homologous Mammalian Genes," J. Mol. Biol. 176:169-187 (1984) | |
| | LA.96. | Yates, et al., "A Cis-Acting Element From the Epstein-Barr Viral Genome That Permits Stable Replication of Recombinant Plasmids In Latently Infected Cells," Proc. Natl. Acad. Sci. USA 81:3806-3810 (1984) | |
| | I.A.97. | Young, et al., "Efficient Isolation of Genes By Using Antibody Probes," Proc. Natl. Sci. USA 80:1194-1198 (1983). | |
| | I.A.98. | Suzuki, et al., "Characterization of A cDNA for Human Protein C Inhibitor," J. Biol. Chem. 262(2):611-616 (1987) | |
| | I.A.99. | First Opposition to Chiron Japanese Patent Application No. 01-500565, filed by Steven Woodsmall (and translation) with supporting documents. | |
| MOX | I.A.100. | Reply to First Opposition to Chiron Japanese Patent Application No. 01-500565 | |

| EXAMINER: | DATE CONSIDERED: | | | |
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| EXAMINER: Initial if citation considered, whether or not the citation conforms with MPEP 609. Draw a line through the citation if not in conformance and not considered. Include a copy of this form with next communication to applicant. | | | | |

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| (Use several sheets if necessary) | Filing Date: May 15, 1995 | Group Art Unit: 1815 |

| | | OTHER DOCUMENTS (including author, title, Date, Pertinent Pages, Etc.) | |
|----------------------|----------|---|--|
| Examiner Initials | Ref. No. | Title 100 DATES | |
| Mysp | I.A.101. | Second Opposition to Chiron Japanese Patent Application No. 01-500565, filed by Akira Yamamoto (and translation) with supporting documents. | |
| 9- | I.A.102. | Reply to Second Opposition to Chiron Japanese Patent Application No. 01-500565 | |
| | I.A.103. | Third Opposition to Chiron Japanese Patent Application No. 01-500565, filed by Asako Sudo (and translation) with supporting documents. | |
| | I.A.104. | Reply to Third Opposition to Chiron Japanese Patent Application No. 01-500565 | |
| | I.A.105. | Fourth Opposition to Chiron Japanese Patent Application No. 01-500565, filed by Yashimi Tawara (and translation) with supporting documents. | |
| | I.A.106. | Reply to Fourth Opposition to Chiron Japanese Patent Application No. 01-500565 | |
| | LA.107. | Fifth Opposition to Chiron Japanese Patent Application No. 01-500565, filed by Tetsuo Nakamura (and translation) | |
| | LA.108. | Reply to Fifth Opposition to Chiron Japanese Patent Application No. 01-500565 | |
| | I.A.109. | Sixth Opposition to Chiron Japanese Patent Application No. 01-500565, filed by Toren K.K. (and translation) with supporting documents. | |
| | LA.110. | Reply to Sixth Opposition to Chiron Japanese Patent Application No. 01-500565 | |
| | I.A.111. | Seventh Opposition to Chiron Japanese Patent Application No. 01-500565, filed by Sumitomo Metal Industries, Ltd. (and translation) with supporting documents. | |
| | I.A.112. | Reply to Seventh Opposition to Chiron Japanese Patent Application No. 01-500565 | |
| | I.A.113. | Righth Opposition to Chiron Japanese Patent Application No. 01-500565, filed by Hiroshi Iino (and translation) with supporting documents. | |
| | I.A.114. | Reply to Eighth Opposition to Chiron Japanese Patent Application No. 01-500565 | |
| | I.A.115. | Ninth Opposition to Chiron Japanese Patent Application No. 01-500565, filed by Kyokuto Seiyaki Kogyo, Inc. (and translation) with supporting documents | |
| | I.A.116. | Reply to Ninth Opposition to Chiron Japanese Patent Application No. 01-500565 | |
| | I.A.117. | Tenth Opposition to Chiron Iapanese Patent Application No. 01-500565, filed by United Biomedical, Inc. (and translation) with supporting documents | |
| · | I.A.118. | Reply to Tenth Opposition to Chiron Japanese Patent Application No. 01-500565 | |
| | I.A.119. | Eleventh Opposition to Chiron Iapanese Patent Application No. 01-500565, filed by Kokusai Shiyaku (and translation) with supporting documents | |
| | I.A.120. | Reply to Eleventh Opposition to Chiron Japanese Patent Application No. 01-500565 | |
| M | I.A.121. | Twelfth Opposition to Chiron Japanese Patent Application No. 01-500565, filed by Shigeo Kimura (and translation) with supporting documents. | |
| N A | I.A.122, | Reply to Twelfth Opposition to Chiron Japanese Patent Application No. 01-500565 | |

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| Form PTO-1449 | Docket Number: 0063.021 | Application Number: 08/441,355 |
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| INFORMATION DISCLOSURE CITATION IN AN APPLICATION | Applicant Houghton, et al. | |
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| | | OTHER DO | CUMENTS | (including author, title, Date, Pertinent Pages, Etc. |
| Examiner Initials | Ref. No. | Title | | |
| Mit | I.A.123. | Thirteenth Opposition to Chiron Akzo Neamloze Vennootschap (| Japanese Patent Appli and translation) | cation No. 01-500565, filed by |
| | I.A.124 | Reply to Thirteenth Opposition t | | |
| | I.A.125. | Fourteenth Opposition to Chiron Hoffman la Roche AG (and trans | Japanese Patent Appl lation) with supporting | cation No. 01-500565, filed by F. g documents |
| | I.A.126. | Reply to Fourteenth Opposition | | |
| | LA.127. | 12/22/95. | | Application No. 01-500565, issued |
| | I.A.128. | Statement of Grounds for Oppos La Roche with supporting docum | ition to Australian Pat ients | ent No. 640,920, filed by Hoffman |
| | I.A.129. | Australian Litigation Bundle, for | Chiron Australian Pa | tent No. 624,105 |
| | I.A.130. | Murex Reply in the Litigation of | Chiron Australian Par | ent No. 624,105 |
| | I.A.133. | First Opposition to Chiron Europ BV (01/27/94) with supporting d | cean Application No. (ocuments | 318 216, filed by Akzo Pharma |
| | I.A.134. | Second Opposition to Chiron Eu Diagnostics Limited(09/12/94) v | ropean Application Novith supporting docum | o. 0 318 216, filed by Murex ents |
| | I.A.135. | Third Opposition to Chiron Euro Biomedical (09/15/94) with supp | pean Application No. porting documents | 0 318 216, filed by United |
| | I.A.136. | Fourth Opposition to Chiron Eur (09/15/94) | opean Application No | . 0 318 216, filed by Beringwerke |
| | LA.137. | Fifth Opposition to Chiron Euro Foundation for Microbial Diseas | pean Application No. es (09/14/94) with sur | 318 216, filed by The Research oporting documents |
| | I.A.138. | Sixth Opposition to Chiron Euro Roche AG(09/15/94) | pean Application No. | 0 318 216, filed by F. Hoffman-La |
| | I.A.139. | J.A. Kemp & Co.(Chiron): Resp 216, June 1995 | onse By Patentee To I | Notices of Opposition re EP 318 |
| | I.A.140. | Miscellaneous Documentation (I Dr. Bradley or the Center for Dis | | supplied to Prof. Donald Chisum by |
| | I.A.141. | Daniel W. Bradley v. Chiron Co with supporting documents. | rporation, Civil Action | No. 94 4342 Litigation Bundle, |
| | I.A.146. | U.K. LITIGATION Bundle 1 | | |
| | I.A.147. | U.K. LITIGATION Bundle 2 | | NO VATES |
| 1/1 | I.A.148. | [U.K. LITIGATION Bundle 5 | | |
| DHO | I.A.149. | U.K. LITIGATION Bundle 6 | | |
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| Form PTO-1449 | Docker Number: 0063.021 | Application Number: 08/441,355 |
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| INFORMATIÓN DISCLOSURE CITATION IN AN APPLICATION | Applicant Hought | on, et al. |
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| | | OTHER DOCUMENTS (Including author, title, Date, Pertinent Pages, Etc.) | | |
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| Examiner Initials | Ref. No. | Title | | |
| MW96 | I.A.150. | [U.K. LITIGATION Bundle 7]> | | |
| | I.A.151. | [U.K. LITIGATION Bundle 7a] | | |
| | I.A.152. | [U.K. LIFIGATION Bundle 7b] | | |
| | I.A.153. | [U.K. LITIGATION Bundle 7e] | | |
| | I.A.154. | [U.K. LITIGATION Bundle 8] | | |
| | I.A.155. | [U-K. LITIGATION Bundle 9] | | |
| | I.A.156. | [U.K. LITIGATION Bundle 9.a.1] | | |
| | I.A.157. | [U.K. LITIGATION Bundle 9.a.2] | | |
| | I.A.158. | [U.K. Interlocutory Affidavits and Exhibits, Vol. 1] | | |
| | I.A.159. | [U.K. Interlocutory Affidavits and Exhibits, Vol. 2] | | |
| | I.A.160. | [U.K. Interlocutory Affidavits and Exhibits, Vol. 3] | | |
| | I.A.161. | [U.K. Interlocutory Affidavits and Exhibits, Vol. 4] | | |
| | I.A.162. | [U.K. Transcript Speeches and Evidence, Vol. 4] | | |
| | I.B.1. | Bioindustry 3:302 (1986); (previously considered in US 08/103,961, reference I.A.1) | | |
| | I.B.2. | Chiron News Release, "Chiron Clones Hepatitis Non-A, Non-B Virus Which May Allow Screening for Previously Undetectable Disease," No. 21 (May 10, 1988); (previously considered in US 07/456,637, reference OR; and US 08/103,961, reference I.B.3) | | |
| | I.B.3. | Viral Hepatitis and Liver Disease 620 (1984); (previously considered in US 08/103,961, reference I.A.90) | | |
| | I.B.4. | Winnacker, "From Genes to Clones Introduction to Gene Technology," (publ., VCH Germany, 1987), pp. 39-41; (previously considered in US 08/103,961, reference V.20) | | |
| | I.B.5. | Aaskov, et al., "An Immunofluorescence Assay for Human Antibodies to Ross River Virus," J. Immu. Meth. 25:37-41 (1979); (previously considered in US 08/103,961, reference I.A.2) | | |
| | I.B.7. | Alter, et al., "Detection of Antibody to Hepatitis C Virus in Prospectively Followed Transfusion Recipients with Acute and Chronic Non-A, Non-B Hepatitis," N. Engl. J. of Med. 321:1494-1500 (1989); (previously considered in US 07/456,637, reference IP; and US 08/103,961, reference I.B.24) | | |
| | I.B.8. | Arikan, et al., "Sequences of the E. coli evrB Gene and Protein," <u>Nucleic Acids Res.</u> 14(6):2637 (1986); (previously considered in US 08/103,961, reference I.A.5) | | |
| pullo | I.B.9. | Arima, et al., "A Lambda gt11-cDNA Clone Specific for chronic Hepatitis C Generated from Pooled Clone Serum Presumably Infected by Hepatitis C Virus," Gastroenterol. Jpn. 24(5):545-548 (1989); (previously considered in US 07/456,637, reference IL; and US 08/103,961, reference I.B.31) | | |
| EXAMI | VER: | 1 M DATE CONSIDERED | | |

EXAMINER: Initial if citation considered, whether or not the citation conforms with MPEP 609. Draw a line through the citation if not in conformance and not considered. Include a copy of this form with next communication to applicant.

PTO/SB/ 08 (2-92)

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|---|---------------------------|--------------------------------|
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| (Use several sheets if necessary) | Filing Date: May 15, 1995 | Group Act Unit: 1815 |

| | | OTHER DOCUMENTS (including author, title, Date. Perlinent Pages, Etc.) |
|----------------------|----------|--|
| Examiner Initials | Ref. No. | Title |
| myb | I.B.10. | Arima, et al., "Cloning of a cDNA Associated with Acute and Chronic Hepatitis C Infection Generated from Patients Serum RNA," Gastroenterol. Jpn. 24(5):540-544 (1989); (previously considered in US 07/456,637, reference IK; and US 08/103,961, reference I.B.33) |
| | LB.11. | Backendorf, et al., "Structure of the uvrB Gene of Escherichia coli. Homology with Other DNA Repair Enzymes and Characterization of the uvrB5 mutation," <u>Nucleic Acids Res.</u> 14(7):2877-2890 (1986); (previously considered in US 08/103,961, reference I.A.9) |
| | I.B.12. | Bankier, et al., "DNA Sequence Analysis of the <i>EcoRI</i> Dhet Fragment of B95-8 Epstein-Barr Virus Containing the Terminal Repeat Sequences," Mol. Biol. Med. 1:425-445 (1983); (previously considered in US 08/103,961, reference I.A.11) |
| | I.B.14. | Mierendorf, et al., "Gene Isolation by Screening Σgt11 Libraries with Antibodies," Methods of Enzymology, Chpt. 51, Vol. 152 (1987) Berger & Kimmel (eds): (previously considered in US 08/103,961, reference I.A.12) |
| | I.B.15. | Bradley, "The Agents of Non-A, Non-B Viral Hepatitis," J. Virol. Meth. 10:307-319 (1985); (previously considered in US 07/456,637, reference EK; and US 08/103,961, reference I.B.45) |
| | I.B.16, | Bradley, et al., "Posttransfusional Non-A, Non-B Hepatitis in chimpanzees. Physiochemical Evidence that the Tubule-forming Agent is a Small Enveloped Virus," Gastroenterology 88:773-779 (1985); (previously considered in US 07/456,637, reference DS; and US 08/103,961, reference I.B.51) |
| | LB.17. | Bradley, et al., "Posttransfusion Non-A, Non-B Hepatitis: Physiochemical Properties of Two Distinct Agents," J. Infect. Dis. 148(2):254-265 (1983); (previously considered in US 07/456,637, reference CP; and US 08/103,961, reference I.B.55) |
| | I.B.18. | Bradley, et al., "Experimental Infection of Chimpanzees with Antihemophilic (Factor VIII) Materials: Recovery of Virus-Like Particles Associated with Non-A, Non-B Hepatitis," J. Med. Virol. 3:253-269 (1979); (previously considered in US 07/456,637, reference BP; and US 08/103,961, reference I.B.56) |
| | I.B.19. | Bradley, et al., "Enterically Transmitted Non-A, Non-B Hepatitis: Serial Passage of Disease in Cynomolgus Macaques and Tamarins and Recovery of Disease-Associated 27 to 34nm Virus like Particles," <u>Proc. Natl. Acad. Sci. USA</u> 84:6277-6281 (1987); (previously considered in US 07/456,637, reference FO, BBR; and US 08/103,961, reference I.B.59) |
| | I.B.20. | Bradley, et al., "Hepatitis Non-A, Non-B Viruses Become Identified as Hepatitis C and E Viruses," Prog. Med. Virol. 37:101-135 (1990); (cited by the examiner in 07/456,637, paper 23; and US 08/103,961, reference I.B.61) |
| ptlb | I.B.21. | Bradley, et al., "Etiology and Natural History of Post-Transfusion and Enterically- Transmitted Non-A, Non-B Hepatitis," <u>Seminars in Liver Disease</u> 6(1):56-66 (1986); (previously considered in US 07/456,637, reference BL; and US 08/103,961, reference |

EXAMINER: Initial if citation considered, whether or not the citation conforms with MPEP 609. Down a line through the citation in

EXAMINER: Initial if citation considered, whether or not the citation conforms with MPEP 609. Draw a line through the citation if not in conformance and not considered. Include a copy of this form with next communication to applicant.

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|---|----------------------------|--------------------------------|
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| | | OTHER DOCUMENTS (including author, title, Date. Pertinent Pages, Etc.) |
|----------------------|----------|--|
| Examiner Initials | Ref. No. | Title |
| | | LB.62) |
| Myb, | I.B.22. | Bryan, "Viral Hepatitis. 1. Clinical and Laboratory Aspects and Epidemiology," <u>Interstate Postgrad. Med. USA</u> 68(5):66-86; (previously considered in US 08/103,961, reference I.A.21) |
| | LB.23. | Burk, et al., "Detection of Non-A, Non-B Hepatitis Antigen by Immunocytochemical Staining," Proc. Natl. Acad. Sci. USA 81:3195-3199 (1984); (previously considered in US 07/456,637, reference GT; and US 08/103,961, reference I.B.69) |
| | I.B.24. | Burkhardt, et al., "Hepatitis Non-A, Non-B Associated Substance in Feces Identification and Cloning of a Partially Double-Stranded Circular DNA," Immun. Infect. 16(3):91-96 (1988); (previously considered in US 07/456,637, reference OP; and US 08/103,961, reference I.B.70) |
| | I.B.25. | Burkhardt, et al., "Hepatitis Non-A, Non-B-associated DNA-Demonstration of the DNA in a proven infectious anti-D-immunoglobulin," Immun. Infect. 16(3):97-99 (1988); (previously considered in US 07/456,637, reference OP; and US 08/103,961, reference I.B.71) |
| | I.B.26. | Butt (Ed.), Practical Immunoassay: The State of the Art, Chpt. 3, Vol. 14 (1984); (previously considered in US 08/103,961, reference I.A.24) |
| | I.B.27. | Buttner, et al., "The Agarose Gene (dagA) of Streptomyces coelicor A3(2): Nucleotide Sequence and Transcriptional Analysis," Mol. Gen. Genet. 209:101-109 (1987); (previously considered in US 08/103,961, reference I.A.25) |
| | I.B.28. | Carman, et al., "Vaccine-Induced Escape Mutant of Hepatitis B Virus," The Lancet 336:325-329 (1990); (previously considered in US 08/103,961, reference I.A.91) |
| | I.B,29. | Cashdollar, et al., "Cloning the double-stranded RNA genes of reovirus: Sequence of the cloned S2 gene," Proc. Natl. Acad. Sci. USA 79:7644-7648 (1982); (previously considered in US 08/103,961, reference V.10) |
| | I.B.30. | Castle, et al., "Sequence Analysis of the Viral Core Protein and the Membrane-Associated Proteins V1 and NV2 of the Flavivirus West Nile Virus of and the Genome Sequence for these Proteins," Virology 145:227-236 (1985); (previously considered in US 08/103,961, reference V.12) |
| | I.B.31. | Cha, et al., "At Least Five Related, But Distinct, Hepatitis C Viral Genotypes Exist," Proc. Natl. Acad. Sci. USA 89:7144-7148 (1992); (previously considered in US 08/103,961, reference I.A.26) |
| | I.B.32. | Choo, et al., "Hepatitis C Virus: The Major Causative Agent of Viral Non-A, Non-B Hepatitis," Brit. Med. Bulletin 46(2):423-441 (1990); (previously considered in US 07/456,637, reference IL; and US 08/103,961, reference I.B.80) |
| M | I.B.33. | Choo, et al., "Isolation of cDNA Clone Derived from a Blood-Borne Non-A, Non-B Viral Hepatitis Genome," Science, 244:359-362 (1989); (previously considered in US/456,637, |

| EXAMINER: W | DATE CONSIDERED TO |
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| EXAMINER: Initial if citation considered, whether or not the citation conformance and not considered. Include a copy of this form with nex | |

PTO/SB/08 (2-92) Sheet 13 of 23

| Form PTO-1449 | Docket Number: 0063.021 | Application Number: 08/441,355 |
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| Examiner | Ref. No. | Title |
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| Initials | 110111101 | |
| | | reference IT and EEO; and US 08/103,961, reference I.B.84) |
| MA | I.B.34. | Coia, et al., "Nucleotide and Complete Amino Acid Sequences of Kunjin Virus: Definitive Gene Order and Characteristics of the Virus-specified Proteins," <u>J. Gen. Virol.</u> 69:1-21 (1988); (previously considered in US 08/103,961, reference V.24) |
| | I.B.35. | Coursaget, et al., "Virus-Like Particles Associated with Non-A, Non-B Hepatitis," The Lancet, 14 July 1979, p. 92; (previously considered in US 07/456,637, reference BO; and US 08/103,961, reference I.B.88) |
| | I.B.37. | Dalgarno, et al., "Ross River Virus 26 S RNA: Complete Nucleotide Sequence and Deduced Sequence of the Encoded Structural Proteins," Virology 129:170-187 (1983); (previously considered in US 08/103,961, reference I.A.29) |
| | I.B.38. | Dalgarno, et al., "Partial nucleotide sequence of the Murray Valley encephalitis virus genome. Comparison of the encoded polypeptides with Yellow Fever virus structural and non-structural proteins," J. Mol. Biol. 187:309-323 (1986); (previously considered in US 08/103,961, reference V.13) |
| | I.B.39. | Davis, et al., "Isolation of cDNA Clones for Differentially Expressed Genes of the Human Parasite Schistosoma mansoni," Proc. Natl. Acad. Sci. USA 83:5534-5538 (1986); (previously considered in US 08/103,961, reference I.A.30) |
| | I.B.40. | Denniston, et al., "Cloned Fragment of the Hepatitis Delta Virus RNA Genome: Sequence and Diagnostic Application," Science 232:873-875 (1986); (previously considered in US 08/103,961, reference V.14) |
| | I.B.41. | Deubel, et al., "Nucleotide Sequence and Deduced Amino Acid Sequence of the Structure Proteins of Dengue Type 2 Virus, Jamaica Genotype," <u>Virology</u> 155:365-377 (1986); (previously considered in US 08/103,961, reference V.22) |
| | LB.42. | Dienstag, et al., "Non-A, Non-B Hepatitis: Evolving Epidemiologic and Clinical Perspectives," Seminars in Liver Disease 6(1):67-81 (1986); (previously considered in US 08/103,961, reference I.A.31) |
| | I.B.43. | Dienstag, et al., "Circulating Immune Complexes in Non-A, Non-B Hepatitis," <u>Lancet</u> 1:1265-1267 16 June 1979; (previously considered in US 07/456,637, reference QR; and US 08/103,961, reference I.B.107) |
| | I.B.44. | Donelson, et al., "Construction of <i>Onchocerca volvulus</i> cDNA libraries and partial characterization of the cDNA for a major antigen," Mol. Biochem. Parasitol. 31:241-250 (1988); (previously considered in US 08/103,961, reference V.5) |
| | I.B.45. | Druilhe, et al., "Species-and Stage-specific antigens in excerythrocytic stages of Plasmodium falciparum," Am. J. Trop. Med. Hyg. 33(3):336-341 (1984); (previously considered in US 08/103,961, reference V.28) |
| | I.B.46. | Edwards, Immunoassay: An Introduction (London, 1985); (previously considered in US 08/103,961, reference LA.32) |
| WWW | I.B.47. | Ezzell, "Candidate Cause Identified of Non-A, Non-B Hepatitis," Nature 333:195 (1988) |
| EXAMI | NER: | DATE CONSIDERED: |

PTO/SB/08 (2-92) Sheet 14 of 23

| Form PTO-1449 | Docket Number: 0063.021 | Application Number: 08/441,355 |
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| INFORMATION DISCLOSURE CITATION IN AN APPLICATION | Applicana Hough | ton, et al. |
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| | | OTHER DOCUMENTS (including author, title, Date, Pertinent Pages, Etc.) | |
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| Examiner Initials | Ref. No. | D. Title | |
| | | (previously considered in US 07/456,637, reference FP; and US 08/103,961, reference I.B.114) | |
| M | I.B.48. | Faragher, Ph.D. thesis, "Sequence Studies on Natural and Laboratory-Derived Virulence Variants of Ross River Virus," <u>Australian National University Lab March</u> 1987; (previously considered in US 08/103,961, reference LA.33, and VI.29) | |
| | I.B.49. | Faragher, et al., "Analysis of Ross River Virus Genomic RNA Using <i>HaeIII</i> Digests of Single-Stranded cDNA to Infected-Cell RNA and Virion RNA," Virology 141:248-256 (1985); (previously considered in US 08/103,961, reference I.A.34) | |
| | I.B.50. | Faragher, et al., "Genome Sequences of a Mouse-Avirulent and a Mouse-Virulent Strain of Ross River Virus," Virology 163:509-526 (1988); (previously considered in US 08/103,961, reference I.A.35) | |
| | LB.51. | Feinstone, et al., "Evidence for Non-A, Non-B Viruses," <u>Viral Hepatitis and Delta</u> <u>Infection</u> , pp. 29-39 (1983); (previously considered in US 08/103,961, reference I.A.36) | |
| | I.B.54. | Glover, (ed.), <u>DNA Cloning Techniques: A Practical Approach</u> , (1985), IRL Press, Oxford; (previously considered in US 08/103,961, reference I.A.41) | |
| | I.B.55. | Goelet, et al., "Nucleotide sequence of tobacco mosaic virus RNA," <u>Proc. Natl. Acad. Sci. USA</u> 79:5818-5822 (1982); (previously considered in US 08/103,961, reference V.9) | |
| | I.B.56. | Guerin-Marchand, "A Liver-Stage-Specific Antigen of <i>Plasmodium Falciparum</i> Characterized by Gene Cloning," <u>Nature</u> 329:164-167 (1987); (previously considered in US 07/456,637, reference FFN; and US 08/103,961, reference LB.143) | |
| | LB.57. | Hakim, "Isolation and Functional Property of mRNA Coding for Hepatitis A, B and Non-A, Non-B Viral Particles from Human Sera," Naturwissenschaften 73:45-47 (1986); (previously considered in US 07/456,637, reference HS; and US 08/103,961, reference I.B.147) | |
| | LB.58. | Hahn, et al., "Nucleotide Sequence of Dengue 2 RNA and Comparison of the Encoded Proteins with Those of Other Flaviviruses," <u>Virology</u> 162:167-180 (1988); (previously considered in US 08/103,961, reference V.18) | |
| | I.B.59. | Hardy, (ed.), Plasmids: A Practical Approach, (IRL Press, Oxford); (previously considered in US 08/103,961, reference I.A.42) | |
| | LB.60. | He, et al., "Determining the Size of Non-A, Non-B Hepatitis Virus by Filtration," J. Infect. Dis. 156(4):636-640 (1987); (previously considered in US 07/191,263 (paper no. 5) and US 07/456,637, reference FM; and US 08/103,961, reference I.B.154) | |
| | I.B.62. | Hollinger, et al., "Transfusion-Transmitted viruses study: Experimental evidence for Two Non-A, Non-B Hepatitis Agents," J. Infect Dis. 142(3):400-407 (1980); (previously considered in US 08/103,961, Reference V.25 | |
| Me | I.B.63. | Houghton, et al., "Molecular Biology of the Hepatitis C Viruses: Implications for Diagnosis, Development and Control of Viral Disease," Hepatology 14(2):381 (1991); (previously considered in US 08/103,961, reference I.A.47) | |
| EXAMI | VER: | DATE CONSIDERED: | |

EXAMINER DATE CONSIDERED:

EXAMINER: Initial if citation considered, whether or not the citation conforms with MPEP 509. Draw a line through the citation if not in conformance and not considered. Include a copy of this form with next communication to applicant.

PTO/SB/08 (2-92) Sheet 15 of 23

| Form PTO-1449 | Docket Number: 0063.021 Application Number: 08/441,355 | |
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| INFORMATION DISCLOSURE CITATION IN AN APPLICATION | Applicant Houghton, et al. | |
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| | | OTHER DOCUMENTS (including suthor, title, Date, Pertinent Pages, Etc.) |
|----------------------|----------|---|
| Examiner Initials | Ref. No. | Title |
| We | LB.66. | Huyhn, et al., "Constructing and Screening cDNA Libraries in Σgt10 and Σgt11," <u>DNA</u> Cloning: A Practical Approach, Vol. 1, Chpt. 2, pp. 49-78 (Glover, ed.); (previously considered in US 08/103,961, reference I.A.95) |
| | I.B.67. | Imai, et al., "Molecular cloning of double-stranded RNA virus genomes," Proc. Natl. Acad. Sci. USA 80:373-377 (1983); (previously considered in US 08/103,961, reference V.11) |
| | LB.68, | Kemp, et al., "Expression of Plasmodium falciparum Blood-Stage Antigens in Escherichia coli: Detection with Antibodies from Immune Humans," Proc. Natl. Acad. Sci. USA 80:3787-3791 (1983); (previously considered in US 08/103,961, reference I.A.52) |
| | I.B.69. | Knodell, et al., "Development of Chronic Liver Disease After Acute Non-A, Non-B Post-Transfusion Hepatitis, Role of K-Globulin prophylaxis in its Prevention," Gastroenterology 72(5):902-909 (1977); (previously considered in US 08/103,961, reference V.26) |
| | LB.70. | Kubo, et al., "A cDNA Fragment of Hepatitis C Virus Isolated from an Implicated Donor of post-transfusion non-A, non-B hepatitis in Japan," Nucl. Acids Res. 17(24):10367-10372 (1989); (previously considered in US 07/456,637, reference JP; and US 08/103,961, reference LB.187) |
| | I.B.71. | Lopez, et al., "Cloning of the I Chain of Human Platelet Glycoprotein Ib: A Transmembrane Protein with Homology to Leucine-Rich I2-Glycoprotein," Proc. Natl. Acad. Sci. USA 84:5615-5619 (1987); (previously considered in US 08/103,961, reference I.A.56) |
| | I.B.72. | Mackow, et al., "The Nucleotide Sequence of Dengue Type 4 Virus: Analysis of Genes Coding for Nonstructural Proteins," <u>Virology</u> 159(2):217-228 (1987); (previously considered in US 08/103,961, reference V.23) |
| | I.B.73. | Mandl, et al., "Genome Sequence of Tick-Borne Encephalitis Virus (Western Subtype) and Comparative Analysis of Nonstructural Proteins with Other Flaviviruses," Virology 173:291-301 (1989); (previously considered in US 08/103,961, reference V.19) |
| | I.B.75. | Miller, et al., "Hepatitis C virus shares amino acid sequence similarity with pestiviruses and flaviviruses as well as members of two plant virus supergroups," Proc. Natl. Acad. Sci. USA 87:2057-2061 (1990); (previously considered in US 08/103,961, reference V.27) |
| | I.B.77. | Molenaar, et al., "Structure and Organization of Two Links Ribosomal Protein Genes in Yeast," Nucleic Acids Res. 12(19):7345 (1984); (previously considered in US 08/103,961, reference I.A.59) |
| my b | I.B.80. | Nakada, et al., "Complete Nucleotide Sequence of the Influenza C/California/78 Virus Nucleoprotein," Virus Res. 1:433-441 (1984); (previously considered in US 08/103,961, reference I.A.62) |
| last | I.B.81. | Neurath, et al., "Strategies for Detection of Transfusion-Transmitted Viruses Eluding |

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| Form PTO-1449 | Docket Number: 0063.021 | Application Number: 08/441,355 |
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| Examiner | Ref. No. | Title |
| Initials | | The state of Heat DMA in Thomas |
| Mb | | Identification by Conventional Serologic Tests. II) Detection of Host DNA in Human Plasmas with Elevated Alanine Aminotransferase," J. Virol. Meth. 8:73-86 (1984); (previously considered in US 07/191,263 (paper no. 5) and US 07/456,637, reference ZP, HR; and US 08/103,961, reference I.B.221) |
| M | LB.82. | Oellerich, "Enzyme-Immunoassay: A Review," J. Clin. Chem. Clin. Biochem. 22:895-904 (1984); (previously considered in US 07/456,637, reference R paper 13; and US 08/103,961, reference I.B.225) |
| | I.B.83. | Okamoto, et al., "Full-Length Sequence of a Hepatitis C Virus Genome Having Poor Homology to Reported Isolates: Comparative Study of Four Distinct Genotypes," Virol. 188:331-341 (1992); (previously considered in US 08/103;961, reference I.A.64 and VI.28) |
| | I.B.84. | Old & Primrose, <u>Principles of Old & Primrose</u> , <u>Principles of Gene Manipulation</u> , 3rd Ed. (1985) Blackwell Scientific Publication, p. 113; (previously considered in US 08/103,961, reference I.A.65) |
| | I.B.85. | O'Sullivan, "Clinical and Biochemical Analysis," <u>Enzyme Immunoassay</u> , Vol. 14, Chpt. 3 (1984); (previously considered in US 08/103,961, reference I.A.66) |
| | I.B.86. | Overby, "Serology of Liver Diseases," <u>Current Hepatology</u> 7:35-67 (1987); (previously considered in US 07/456,637, reference BM; and US 08/103,961, reference I.B.231) |
| | I.B.89. | Prince, et al., "Hepatitis C virus (HCV): Characterization of virus specific antigens and associated particles," Gastroenterology 77(5):A33 (1979); (previously considered in US 07/456,637, reference ON; and US 08/103,961, reference I.B.245) |
| | LB.90. | Prince, "Non-A, Non-B Hepatitis Viruses," Ann. Rev. Microbiol. 37:217-232 (1983); (previously considered in US 07/456,637, reference CO; and US 08/103,961, reference I.B.250) |
| | I.B.92. | Rice, et al., "Nucleotide Sequence of Yellow Fever Virus: Implications for Flavivirus Gene Expression and Evolution," Science 229:726-733 (1985); (previously considered in US 08/103,961, reference I.A.69) |
| | I.B.93. | Rice, et al., "Nucleotide sequence of the 26S mRNA of Sindbis virus and deduced sequence of the encoded virus structural proteins," Proc. Natl. Acad. Sci. USA 78(4):2062-2066 (1981); (previously considered in US 08/103,961, reference V.7) |
| | I.B.94. | Rice, et al., "Synthesis, Cleavage and Sequence Analysis of DNA Complementary to the 26 S Messenger RNA of Sindbis Virus," J. Mol. Biol. 150:315-340 (1981); (previously considered in US 08/103,961, reference V.8) |
| | I.B.95. | Robinson, et al., "The Enigma of Non-A, Non-B Hepatitis" J. Infect. Dis. 145(3):387-395 (1982); (previously considered in US 08/103,961, reference V.2) |
| MAG | I.B.96. | Scallon, et al., "Cloning of a Schistosoma japonicum Gene Encoding a Major Immunogen Recognized by Hyperinfected Rabbits," Mol. Biochem. Parasitol. 24:237-245 (1987); |

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PTO/SB/08 (2-92) Sheet 17 of 23

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| Examiner Ref | f. No. | Title | | |
| | | (previously considered in US 08/10 | 3,961, reference I.A.7 | (3) |
| M/b I.B | .97. | Schuurs, et al., "Enzyme Immunoa: considered in US 08/103,961, refer | ssay," <u>Clin. Chim. AC</u> ence I.A.74) | TA 81:1-40 (1977); (previously |
| I.B. | .99. | Seikagaku Jiten, "Antigen Determi (1984); (previously considered in U | nant," <u>Dictionary of B</u> JS 08/103,961, referen | iochemistry, 1st Ed. p. 435 ace I.A.75) |
| Į.B | .101. | Seto, et al., "Detection of Reverse" Non-B Hepatitis Agent(s)," The La US 07/456,637, reference DN; and | <u>incet</u> 8409 :941-943 (1 | 984); (previously considered in |
| I.B. | .103. | Shih, et al., "Non-A, Non-B Hepati Decade," <u>Prog. in Liver Diseases</u> , 452, (previously considered in US | Vol. VIII (Grune & St | ratton, publ.), Chpt. 24, pp. 433- |
| I.B | .105. | Shimizu, et al., "Non-A, Non-B He Experimentally Infected Chimpanz considered in US 07/456,637, refer | ees," Science 205:197 | -200 (1979); (previously |
| I.B | .106. | Shirachi, et al., "Hepatitis "C" anti- Lancet 8095:853-856 (1978); (prev US 08/103,961, reference I.B.282) | | |
| I.B | .107. | Stahl, et al., "Differential Antibody Sequences Expressed in Escherich Analysis of Human Antisera," Proc (previously considered in US 08/10 | ia coli: Procedure for l c. Natl. Acad. Sci. USA | Isolation of Defined Antigens an <u>A</u> 81 :2456-2460 (1984); |
| I.B | .108. | Strauss, et al., "Replication of Alph Polyproteins," <u>Positive Strand RNA</u> (previously considered in US 08/10 | A Viruses (Alan Liss, 1 | Inc. 1987) pp. 209-225; |
| I.B | .109. | Sumiyoshi, et al., "Complete Nucle Genome RNA," <u>Virology</u> 161:497- reference V.16) | | |
| I.B | .110. | Tabor, et al., "Detection of an Anti Human Non-A, Non-B Hepatitis," considered in US 07/456,637, refer | J. Med. Virol. 4:161-1 | 169 (1979); (previously |
| I.B | .111. | Taylor, et al., "Efficient Transcript polymerase," <u>Biochim. Biophys. A</u> 08/103,961, reference V.6) | | |
| I.B | .112. | Trent, et al., "Partial Nucleotide Sequence of St. Louis Encephalitis Virus RNA: Structural Proteins, NS1, ns2a, and ns2b," <u>Virology</u> 156:293-304 (1987); (previously considered in US 08/103,961, reference V.17) | | |
| V W J.B | .115. | Van der Poel, et al., "Confirmation | | |
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| Form PTO-1449 | Docker Number: 0063.021 | Application Number: 08/441,355 |
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| INFORMATION DISCLOSURE CITATION IN AN APPLICATION | Applicant Houghton, et al. | |
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| | | OTHER DOCUMENTS (including author, title, Date, Pertinent Pages, Etc.) |
|----------------------|----------|---|
| Examiner Initials | Ref. No. | Tide |
| ANB | | Recombinant Immunoblot Assay," The Lancet 337:317-319 (1991); (previously considered in US 07/456,637, reference KS; and US 08/103,961, reference I.B.331) |
| | I.B.117. | Vogel, et al., "Production of a recombinant antigen of Echinococcus multilocularis with high immunodiagnostic sensitivity and specificity," Mol. Biochem. Parasitol. 31:117-126 (1988); (previously considered in US 08/103,961, reference V.4) |
| | I.B.118. | Vrati, et al., "Ross River Virus Mutant with a Deletion in the E2 Gene: Properties of the Virion, Virus-Specific Macromolecule Synthesis and Attenuation of Virulence for Mice," Virology 151:222-232 (1986); (previously considered in US 08/103,961, reference I.A.84 and VI.29) |
| | I.B.119. | Wang, et al., "Structure, sequence and expression of hepatitis delta (A) viral genome," Nature 323:508-514 (1986); (previously considered in US 07/191,263 (paper no. 5) and US 07/456,637, reference OM; and US 08/103,961, reference I.B.345) |
| | I.B.120. | Weiner, et al., "Hepatitis Delta (A) cDNA Clones: Undetectable Hybridization to Nucleic Acids from Infectious Non-A, Non-B Hepatitis Materials and Hepatitis B DNA," J. Med. Virol. 21:239-247 (1987); (previously considered in US 07/456,637, reference HT; and US 08/103,961, reference I.B.350) |
| | LB.121. | Weiner, et al., "HCV: Detection of Hepatitis C Viral Sequences in Non-A, Non-B Hepatitis," The Lancet 335:1-3 (1990); (previously considered in US 07/456,637, reference LL; and US 08/103,961, reference LB.353) |
| | I.B.122. | Wengler, et al., "Analysis of Structural Properties which Possibly Are Characteristic for the 3'-Terminal Sequence of the Genome RNA of Flaviviruses," J. Gen. Virol. 67:1183-1188 (1986); (previously considered in US 08/103,961, reference V.21) |
| | I.B.123. | Yaegashi, et al., "Partial Sequence Analysis of Cloned Dengue Virus Type 2 Genome," Gene 46:257 (1986); (previously considered in US 08/103,961, reference I.A.89) |
| | I.B.124. | Young, et al., "Efficient Isolation of Genes by Using Antibody Probes," Proc. Natl. Acad. Sci. USA 80:1194-1198 (1983); (previously considered in US 07/456,637, reference FFM cited by the examiner in paper 23; and US 08/103,961, reference I.B.358) |
| : | I.B.125. | Young, et al., "Yeast RNA polymerase II genes: Isolation with antibody probes," Science 222:778-782 (1983); (previously considered in US 08/103,961, reference I.B.359) |
| | I.B.126. | Newswatch 5:8 (1985) (previously considered in US 07/456,637, reference DT; US 08/103,961, reference I.B.11) |
| | I.B.127. | The New York Times, Friday, April 21, 1989, p. 1 (previously considered in US 07/456,637, reference NN; US 08/103,961, reference I.B.10) |
| | I.B.128. | Martin, et al., Arch. of Virol, 61:87-103 (1979) (ref. 52); (previously considered in US 08/103,961, reference III.A.227 and VI.24) |
| MNB | I.B.129, | Sewell, et al., <u>Proc. Natl. Acad. Sci. USA</u> 83:8718-8722 (1986) (<u>ref. 18</u>); (previously considered in US 08/103,961, reference III.A.198 and VI.16) |
| EXAMI | NER: | DATE CONSIDERED |

PTO/SB/ 08 (2-92) Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

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PTO/SB/08 (2-92) Sheet 19 of 23

| Form PTO-1449 | Docket Number: 0063.021 | Application Number: 08/441,355 |
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| INFORMATION DISCLOSURE CITATION IN AN APPLICATION | Applicant Houghton, et al. | |
| (Use several sheets if necessary) | Filing Date: May 15, 1995 | Group Art Unit: 1815 |

| | | OTHER DOCUMENTS (including author, title, Date, Pertinent Pages, Etc.) |
|----------------------|----------|---|
| Examiner Initials | Ref. No. | Title |
| Mb | I.B.130. | Zhao, et al., <u>Virology</u> 155:77-88 (1986) (<u>ref. 31</u>); (previously considered in US 08/103,961, reference V.15) |
| | I.B.131. | Letter dated October 16, 1989, from Mr. Lanman at the NIH to Robert Blackburn at Chiron; (previously considered in US 08/103,961, reference I.A.106) |
| | I.B.132. | Opinion of Professor Donald Chisum June 1991; (previously considered in US 08/103,961, reference I.A.107) |
| | LB.133. | "Agreement of Settlement" dated April 3, 1990 between Chiron Corporation and the Centers for Disease Control; (previously considered in US 08/103,961, reference I.A.108) |
| | I.B.134. | "Independent Legal Opinion Concerning Hepatitis C Inventorship Dispute", June 1991; (previously considered in US 08/103,961, reference I.A.109) |
| | I.B.135. | Memorandum Re Interviews of Dr. Qui-Lim Choo and Dr. George Kuo dated May 8, 1991; (previously considered in US 08/103,961, reference I.A.110) |
| | I.B.136. | Memorandum Re Interview of Dr. Michael Houghton dated May 8, 1991; (previously considered in US 08/103,961, reference I.A.111) |
| | I.B.137. | Memorandum Re Interview of Dr. Daniel Bradley dated April 11, 1991; (previously considered in US 08/103,961, reference I.A.112) |
| | I.B.138. | Memorandum Re Interviews of Dr. Amy Weiner and Dr. Gary Van Nest dated April 30, 1993; (previously considered in US 08/103,961, reference I.A.113) |
| | I.B.139. | Memorandum Re Interview of Dr. Lacy Overby dated June 21, 1991; (previously considered in US 08/103,961, reference I.A.114) |
| | I.B.140. | Memorandum dated November 11, 1987 by Dr. Michael Houghton; (previously considered in US 08/103,961, reference I.A.115) |
| | LB.141. | Memorandum by Dr. Michael Houghton (undated); (previously considered in US 08/103,961, reference I.A.116) |
| , | I.B.142. | Chiron Laboratory Notebook #1298, pp. 184-190, 192 (November, 1986); (previously considered in US 08/103,961, reference I.A.117) |
| | I.B.143. | Memorandum by Dr. Houghton, dated November 10, 1987; (previously considered in US 08/103,961, reference I.A.118) |
| | I.B.144. | Inventorship Opinion of Gladys Monroy dated June 7, 1988; (previously considered in US 08/103,961, reference I.A.119) |
| | I.B.145. | Letter dated October 16, 1989 from Mr. Lanman of the NIH to Robert Blackburn of Chiron Corporation |
| | I.B.146. | Bradley, et al., <u>Prog. Med. Virol.</u> 37:101-135 (1990) (cited by the examiner in 07/456,637, paper 23; and 08/103,961, reference I.B.61) |
| MA | I.B.147. | Weiner, et al., J. Virol. 62(2):594-599 (1988); (previously considered in US 07/122,174, |

| EXAMINER: | NA | DATE CONSIDERED: |
|-----------|----|------------------|

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| Form PTO-1449 | Docket Number: 0063.021 | Application Number: 08/441,355 |
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| | | OTHER DOCUMENTS (including author, title, Date, Pertinent Pages, Etc.) |
|----------------------|----------|--|
| Examiner Initials | Ref. No. | Title |
| | | 07/139,886, 07/161,072, 07/191,263; and US 08/103,961, reference I.B.354) |
| MB | I.B.148. | Choo, et al., Genetics, Organization and diversity of the Hepatitis C virus," Proc. Natl. Acad. Sci. USA 88:1-5 (1991); (previously considered in US/456,637, reference LB.83) |
|) | LB.149. | Proc. Japan Acad., 65,ser. V. No. 9, pp.219-223 (1989) |
| | LB.151. | Methods in Enzymology vol. 155, part F (1987) (previously considered in US 08/103,961, reference LA.12) |
| | J.B.152. | Bradley, "Non-A/Non-B Hepatitus in Experimentally Infected Chimpanzees: Cross Challenge and Electron Microscopic Studies," J Med Virol 6:185-201 (1980); (previously considered in US 07/456,637, reference I.B.57) |
| | LB,154. | Dialog Computer Printout (previously considered in US 08/103,961, reference V.3) |
| | LB.155. | Alter, "Transfusion-Associated Non-A, Non-B Hepatitis: The First Decade," Viral Hepatitis and Liver Disease, (Zuckermann, Ed.) p.537; (Considered in US 08/103,961, reference I.A.3) |
| | LB.156. | Arima, et al., "Cloning of Serum RNA Associated with Hepatitis C Infection Suggesting Heterogeneity of the Agent(s) Responsible for Infection," Chemical Abstract, 112(11):441 (1990); (Considered in US 08/103,961, reference I.A.6) |
| | LB.157. | Arima, "Cloning of a cDNA Associated with Acute and Chronic Hepatitis C Infection Generated from Patients Serum RNA," Chem. Abstract, 112(1):209 (1990); (Considered in US 08/103,961, reference I.A.7) |
| | I.B.158. | Arima, "A Lambda gtl1-cDNA Clone Specific for Chronic Hepatitis C Generated from Pooled Serum Presumably Infected by Hepatitis C Virus," Chem. Abstract, 112(7):169 (1990); (Considered in US 08/103,961, reference I.A.8) |
| | I.B.159. | Boender, et al., "Fragmented Chromosomal DNA in Sera of Patients with Hepatitis A, B, and Non-A, Non-B," Viral Hepatitis and Liver Disease (Zuckerman, ed.) pp. 588-591 (1988); (Considered in US 08/103,961, reference I.A.13) |
| | I.B.160. | Bradley, et al., "Non-A, Non-B Hepatitis in Experimentally Infected Chimpanzees: Comparative Morphology of Virus-Induced Ultrastructural Changes," Hepatitis Viruses and Hepatocellular Carcinoma, pp. 226-260 (1985); (Considered in US 08/103,961, reference I.A.14) |
| | I.B.161. | Brotman, et al., "Interference Between Non-A, Non-B and Hepatitis B Virus Infection in Chimpanzees," J. Med. Vir., 11:191-205 (1983); (Considered in US 08/103,961, reference I.A.20) |
| MA | I.B.164. | Neurath, et al., "An Antigen Detected Frequently in Human Sera with Elevated Levels of Alanine Aminotransferase: A Potential Marker for Non-A, Non-B Hepatitis," J. Gen. Virol., 48:285-295 (1980); (Considered in US 07/456,637, reference SQ; and US 08/103,961, reference LB.220) |

| | 11 |
|--|--|
| EXAMINER: | DATE CONSTITERED: |
| EXAMINER: Initial if citation considered, whether or not the citation conformance and not considered. Include a copy of this form with nex | conforms with MPBP 609. Draw a line through the citation if not in t communication to applicant. |

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| | | OTHER DOCUMENTS (Including author, title, Date, Pertinent Pages, Etc.) |
|----------------------|----------|--|
| Examiner Initials | Ref. No. | Title |
| MVB | I.B.165. | Shimizu, et al., "Production of Antibody Associated with Non-A, Non-B Hepatitis In A Chimpanzee Lymphoblastoid Cell Line Established by in vitro Transformation with Epstein-Barr Virus," Proc. Natl. Acad. Sci. USA, 82:2138-2142 (1985); (Considered in US 07/456,637, reference HL; and US 08/103,961, reference I.B.280) |
| - | J.B.166. | Shimizu, et al., "Further Studies by Immunofluorescence of the Monoclonal Antibodies Associated with Experimental Non-A, Non-B Hepatitis in Chimpanzees and Their Relation to Delta Hepatitis," Hepatology, 6:1329-1333 (1986); (Considered in US 07/456,637, reference HN; and US 08/103,961, reference I.B.278) |
| | I.B.167. | Prince, et al., "Isolation of a Virus from Chimpanzee Liver Cell Cultures Inoculated with Sera Containing the Agent of Non-A, Non-B Hepatitis," The Lancet, 10 November 1984, pp. 1071-1075; (Considered in US 07/456,637, reference DO; and US 08/103,961, reference I.B.248) |
| | I.B.168. | Arima, et al., "Serum RNA Associated with Blood-Transmitted Non-A, Non-B Hepatitis," Hepatology, 8:1275 (1988); (Considered in US 07/456,637, reference CCO; and US 08/103,961, reference LB.34) |
| | LB.169. | Arima, et al., "Cloning of Serum RNA Associated with Hepatitis C Infection Suggesting Heterogeneity of the Agent(s) Responsible for Infection," Gastroenterol. Jpn., 25(6):685-691 (1989); (Considered in US 07/456,637, reference IM; and US 08/103,961, reference I.B.32) |
| | I.B.170. | Bradley, et al., "Non-A, Non-B Hepatitis in Experimentally Infected Chimpanzees: Comparative Morphology of Virus-Induced Ultrastructural Changes," <u>Academic Press Japan</u> , (1985); (Considered in US 07/456,637, reference EEN; and US 08/103,961, reference I.B.47) |
| | I.B.171. | Bradley, et al., "Non-A, Non-B Hepatitis:Research Progress and Current Perspectives," <u>Dev. Biol. Standard</u> , 54:63-73 (1983); (Considered in US 07/456,637, reference EEM; and US 08/103,961, reference I.B.49) |
| | I.B.172. | Bradley, et al., "Parenterally Transmitted Non-A, Non-B Hepatitis Virus-Specific Antibody Response Patters in Hepatitis C Virus-Infected Chimpanzees," <u>Gastroenterology</u> , 99:1054-1060 (1990); (Considered in US 07/456,637, reference LM; and US 08/103,961, reference I.B.50) |
| | I.B.173. | Virus-Like Particles, Abstr. Ann. Mtg. Am. Soc. Microbiol., 79:267 (1979); (Considered in US 07/456,637, reference QQ; and US 08/103,961, reference I.B.46) |
| | I.B.174. | J. Gen. Virol., 69:731-738 (1988); (Considered in US 07/456,637, reference CCP; and US 08/103,961, reference L.B.52) |
| MVb | I.B.175. | Bradley, et al., "Non-A, Non-B Hepatitis in Chimpanzees:Interference with Acute Hepatitis A Virus and Chronic Hepatitis B Virus Infections," J. Med. Virol.,11:207-213 |
| EXAM | INER: | MADE DATE CONSIDERED: |

EXAMINER: DATE CONSIDERED

EXAMINER: Initial if citation considered, whether or not the citation conforms with MPEP 609. Draw a line through the citation if not in conformance and not considered. Include a copy of this form with next communication to applicant.

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| | | OTHER DOCUMENTS (including author, title, Date, Pertinent Pages, Etc.) |
|----------------------|----------|---|
| Examiner Initials | Ref. No. | Title |
| | | (1983); (Considered in US 07/456,637, reference GR; and US 08/103,961, reference I.B.53) |
| Mile | I.B.176. | Bradley, et al., "Persistent Non-A, Non-B Hepatitis in Experimentally Infected Chimpanzees," J. Infect. Dis., 143:210-218 (1981); (Considered in US 07/456,637, reference EEK; and US 08/103,961, reference LB.54) |
| <u> </u> | I.B.177. | Bradley, et al., "Viroids and Viral Hepatitis in Marmosets," Nature, 248:172 (1974); (Considered in US 07/456,637, reference PT; and US 08/103,961, reference I.B.58) |
| | I.B.178. | Bradley, et al., "Guest Lecture: Recrudescence of Non-A, Non-B Hepatitis in Persistently Infected Chimpanzees," Proc. Int'l Hepatitis Workshop (undated); (Considered in US 07/456,637, reference EEL; and US 08/103,961, reference I.B.60) |
| | I.B.179. | Bradley, et al., "Virus of Enterically Transmitted Non-A, Non-B Hepatitis, "The Lancet, 9 April 1988, p. 819; (Considered in US 07/456,637, reference CCQ; and US 08/103,961, reference I.B.63) |
| | I.B.180. | Brotman, et al., "Non-A, Non-B Hepatitis:Is There More Than A Single Blood-Borne Strain?," <u>J. Infect. Dis.</u> , 151:618-625 (1985); (Considered in US 07/456,637, reference DP; and US 08/103,961, reference I.B.65) |
| | I.B.181. | Dienstag, "Non-A, Non-B Hepatitis I Recognition, Epidemiology and Clinical Features," Gastroenterology, 85:439-462 (1983); (Considered in US 07/456,637, reference AO; and US 08/103,961, reference I.B.104) |
| | I.B.182. | Dienstag, "Non-A, Non-B Hepatitis II Experimental Transmission, Putative Virus Agents and Markers, and Prevention," Gastroenterology, 85:743-768 (1983); (Considered in US 07/456,637, reference AP; and US 08/103,961, reference I.B.105) |
| | I.B.183. | Hallam, "Non-A, Non-B Hepatitis:Reverse Transcriptase Activity?," The Lancet, 21 September 1985, p. 665; (Considered in US 07/456,637, reference EP; and US 08/103,961, reference I.B.148) |
| | I.B.184. | Itoh, et al., "Lack of Detectable Reverse-Transcriptase Activity in Human and Chimpanzes Sera with a High Infectivity for Non-A, Non-B Hepatitis," <u>J. Gen. Virol.</u> , 67:777 (1986); (Considered in US 07/456,637, reference ES; and US 08/103,961, reference I.B.167) |
| | I.B.185. | Linke, et al., "Non-A, Non-B Hepatitis Infection Does Not Result in the Production of Abundant Poly-A-Containing Messenger RNAs," Viral Hepatitis and Liver Disease (Zuckerman, ed.) pp.564-567 (1988); (Considered in US 08/103,961, reference I.A.55) |
| | I.B.186. | Alter, "Transfusion-Associated Non-A, Non-B Hepatitis: The First Decade," J. Med. Virol., 21:43A (1987); (Considered in US 07/456,637, reference BBQ; and US 08/103,961, reference I.B.22) |
| mile | I.B.187. | Alter, et al., "Non-A, Non-B Hepatitis: Its Relationship to Cytomegalovirus, to Chronic Hepatitis and to Direct and Indirect Test Methods," Viral Hepatitis, 1981 Int'l Symposium, pp. 279-294 (1981); (Considered in US 07/456,637, reference GO; and US 08/103,961, |

| EXAMINER: | DATE CONSIDERED: |
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| EXAMINER: Initial if citation considered, whether or not the citation conformance and not considered. Include a copy of this form with nex | |

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| - | | OTHER DOCUMENTS (including author, title, Date, Pertinent Pages, Etc.) |
|----------------------|----------|---|
| Examiner Initials | Ref. No. | Title |
| | | reference I.B.26) |
| nwe | I.B.188. | Feinstone, et al., "Non-A, Maybe-B Hepatitis," New England J. Med., 311(3):185-189 (1973); (Considered in US 08/103,961, reference I.A.37) |
| | I.B.189. | Fraenkel-Conrat, et al. (ed.), The Viruses: The Togaviridae and Flaviviridae (1986), Plenum Press); (Considered in US 08/103,961, reference I.A.39) |
| | I.B.190. | Hellings, et al., "Transmission of Non-A, Non-B Hepatitis by Leucocyte Preparations," Viral Hepatitis and Liver Disease (Zuckerman, ed.), pp. 543-549 (1988); (Considered in US 08/103,961, reference I.A.43) |
| | LB.191. | Alter, et al., "Non-A, Non-B:Observations on the First Decade," Viral Hepatitis and Liver Disease (Vyas, et al. eds.) pp. 345-354 (1984); (Considered in US 07/456,637, reference PO; and US 08/103,961, reference I.B.25) |
| mid | I.B.192. | Charney, et al., "Analysis by Hybridization with HBV DNA of Hepatocellular DNA from Patients with Chronic Non-A, Non-B Hepatitis," Viral Hepatitis; 1981 International Symposium (Szmuness, et al., eds. (pp. 656-657) 1985, Franklin Institute Press); (Considered in US 08/103,961, reference I.A.27) |

EXAMINER: DATE CONSIDER FOR

EXAMINER: Initial if citation considered, whether or not the citation conforms with MPEP 609. Draw a line through the citation if not in conformance and not considered. Include a copy of this form with next communication to applicant.

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Form PTO-1449 INFORMATION DISCLOSURE CITATION IN AN APPLICATION

Docket Number 223002006313

Application Number 08/441,355

Applicant

Houghton, et al.

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| U.S. PATENT DOCUMENTS | | | |
|---|---|--|--|
| U.S. PATENT DOCUMENTS | | | |
| | | | |
| | Date If opriate | | |
| 1.A.163 08/07/84 4,464,474 Coursaget et al. | | | |
| March 1.A.164 07/26/83 4,395,395 Tabor et al. | | | |
| FOREIGN PATENT DOCUMENTS | | | |
| Examiner Ref. Date Document No. Country Class Subclass Tran YES | slation NO | | |
| M V 6 I.A.165 0190972 A2 Europe | | | |
| OTHER DOCUMENTS (including author, title, Date, Pertinent | t Pages, Etc. | | |
| Examiner Ref. Title Initials No. | | | |
| I.A.166 Petrovskis et al., "Use of λgt11 To Isolate Genes for Two Pseudorabies Virus Glycoproteins with Homology to Herpes Simplex Virus and Varicella-Zoster Virus Glycoproteins," <u>J. of Immunology</u> 60(1):185-193 (1986). | 3 | | |
| I.A.167 Purcell, "Blood-Borne Non-A, Non-B Hepatitis," Update 2:2 (1988). | | | |
| I.A.168 Rice et al., "Molecular Cloning of Flavivirus Genomes for Comparitive Analysis a Expression," Modern Trends in Virology, pp.83-97 (1988). | nd | | |
| <u>Immununological Methods</u> 102:259-274 (1987). | Geysen et al., "Strategies for epitope analysis using peptide synthesis," J. of Immununological Methods 102:259-274 (1987). | | |
| I.A.170 Maynard et al., "Transmission of Non-A, Non-B Hepatitis by Blood Products and Derivatives," Non-A, Non-B Hepatitis Chapter 5, pp.71-95 (1981). | | | |
| I.A.171 Tohmatsu et al., "AN6520 Ag: An Antigen Purified from Liver With Non-A, Non-Hepatitis," <u>J. of Medical Virology</u> 15:357-371 (1985). | 1-B | | |
| 1:A.172 Affidavit of H. Mario Geysen, Ph.D. | | | |
| 1.A:173 Affidavit of Michael S. Urdea, Ph.D. | | | |
| I.A.174 Daniel W. Bradley v Chiron Corporation, Civil Action No. 94-4342, Order Grantin Defendant's Motion to Strike Allegations from and to Dismiss Second Amended Complaint on July 15, 1996. | | | |
| I.A.175 Daniel W. Bradley v Chiron Corporation, Civil Action No. 94-4342, Judgment on 1996. | July 25, | | |
| 1.A.176 Murex Opposition Bundle. | | | |

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